Unit digits

ईकाई अंक

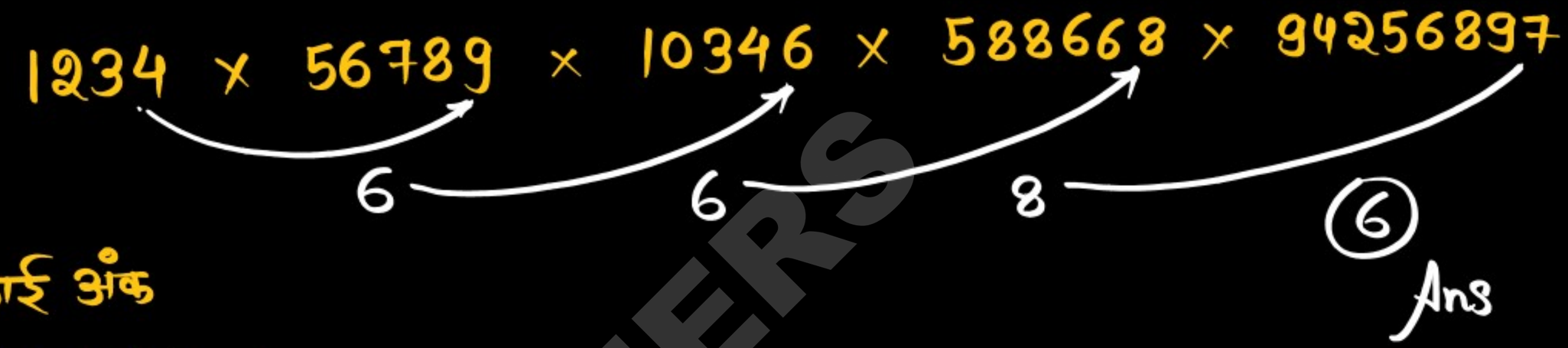
- बिना घात (without power)
- घात (power)

$25 \times 31 = \text{-----} \; 5$

$21 \times 32 \times 43 \times 54 \times 66$

$1 \times 2 \times 3 \times 4 \times 6$

$2 \rightarrow 6 \rightarrow 4 = 4$



इकाई अंक

Unit Digit ⇒

(II)

123

5462 ⇒ ..... (8)

$4\overline{)23}\,(5$

-20

$\boxed{3}$

5462

↓

2^{123}

↓

$2^{23 \div 4}$

2^3

(8) Ans

Trick

(I) घात (P) ÷ (4)

(II) शेष(R) NO. = Ans

÷ 4 की विभाज्यता

- - - - xx

$$\overset{98}{\Rightarrow} \underset{\sim\sim}{98}\underline{3} = ?$$

$$\Rightarrow 3^{98 \div 4}$$

$$\Rightarrow 3^{2}$$

$$\Rightarrow 9$$ Ans.

$$\overset{243}{567} = ?$$

$$7^{43 \div 4}$$

$$7^{3}$$

$$343$$ Ans

$9^{9^{9^{9^{9}}}} = ?$

$9^{99 \div 4}$

9^3

$\Rightarrow 729$

Ans

2^{11}

$2^4 \times 2^4 \times 2^3$

8

÷4

$2^1 = 2$

$2^2 = 4$

$2^3 = 8$

→ $2^4 = 16$

$2^5 = 32$

$2^6 = 64$

$2^7 = 128$

→ $2^8 = 256$

$2^9 = 512$

$3^1 = 3$

$3^2 = 9$

$3^3 = 27$

$3^4 = 81$

$3^5 = 243$

$3^6 = 729$

⋮

7

1

3

9

7

1

$4^1 = 4$

$4^2 = 16$

$4^3 = 64$

$4^4 = 256$

4

6

4

6

⋮

$7^1 = 7$

$7^2 = 49$

$7^3 = 343$

$7^4 = 2401$

7

9

3

1

100 ÷4

9563 = ?

3^{4}

3×3×3×3

1 Ans.

444

25982 = ?

$2^{44 \div 4}$

2^{4} = 6 Ans

शेष (R)

1 = 1

2 = 2

3 = 3

0 = 4

$568 \div 4$

$1289 = ?$

9^4

$9 \times 9 \times 9 \times 9$

81×81

① Ans

3498699546 89

$123456 = ?$

Ans = 6

Last	Ans
1	1
5	5
6	6
0	0

$1 \times 1 \times 1 \times 1 \times \rightarrow 1$

$5 \times 5 \times 5 \times 5 = \ldots 5$

$6 \times 6 \times 6 \times 6 \text{ --- } 6$

999999

25985

Ans = (5)

1. प्रथम 111 पूर्ण संख्याओं के योग का ईकाई अंक = ?

What is the unit digit of the Sum of first 111 whole No.?

(a) 5 (b) 4 (c) 9 (d) 6

0, 1, 2, 3, ..., 110 (n)

55

$\frac{110 \times 111}{2}$ = ... 5

Ans.

$\frac{n(n+1)}{2}$

1 से n तक संख्याओ का योग Sum

2. $81 \times 82 \times 83 \times 84 \ldots\ldots \times 89$ का ईकाई अंक $= ?$

(a) 1 (b) 0 (c) 2 (d) 8

$81 \times 82 \times 83 \times 84 \times 85 \times 86 \times 87 \times 88 \times 89$

$\ldots\ldots 0 \times \ldots\ldots = 0$

5 x सम (even) = 0

0 x N = 0

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